PORTAL
US Patent & Trademark Office

Subscribe (Full Service) Register (Limited Service, Free) Login

Search: ○ The Guide ◉ The ACM Digital Library

genetic <near/2> design

[SEARCH]

THE ACM DIGITAL LIBRARY

Feedback Report a problem Satisfaction survey

Terms used **genetic near/2 design**

Found **7,447** of **112,413**

Sort results by [relevance ▾]
Display results [expanded form ▾]

◆ Save results to a Binder
? Search Tips
☐ Open results in a new window

Try an Advanced Search
Try this search in The ACM Guide

Results 81 - 100 of 200   Result page: previous 1 2 3 4 **5** 6 7 8 9 10   next
Best 200 shown
Relevance scale ☐ ▭ ▬ ■ ■

81 Behavioral synthesis of analog systems using two-layered design space exploration ▭
Alex Doboli, Adrian Nunez-Aldana, Nagu Dhanwada, Sree Ganesan, Ranga Vemuri
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation conference**
Full text available: 📄 pdf(165.35 KB)   Additional Information: full citation, references, citings, index terms

82 A few new features for genetic algorithms ▭
Marshall Graves, William Hooper
April 1998 **Proceedings of the 36th annual Southeast regional conference**
Full text available: 📄 pdf(696.05 KB)   Additional Information: full citation, references, index terms

83 A prognosis for use of health, medical, and genetic information: Linking the public voice with the genetic policy process: a case study ▭
Gregory Fowler
April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**
Full text available: 📄 pdf(38.79 KB)   Additional Information: full citation, abstract

The application of genetic information will shape economies and lives throughout the next century and beyond. At the current pace of discovery, genetic research will bring advances in pharmaceuticals and therapeutic treatments that not only serve to reduce human suffering, but also offer people new choices and greater control over their lives. But, what humanity will do with this new technology and knowledge remains to be seen. Current thinking on our genetic future ranges from fearful predictio ...

84 Group classification using a mix of genetic programming and genetic algorithms ▭
Aaron Konstam
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Full text available: 📄 pdf(583.28 KB)   Additional Information: full citation, references, index terms

Keywords: classification, discriminant functions, genetic algorithms, genetic programming

85 Genetic programming applied to Othello: introducing students to machine learning research ▭

Eleazar Eskin, Eric Siegel
March 1999 **ACM SIGCSE Bulletin , The proceedings of the thirtieth SIGCSE technical symposium n C mputer science educati n**, Volume 31 Issue 1

Full text available: pdf(670.28 KB)   Additional Information: full citation, abstract, references, citings, index terms

In this paper we describe and analyze a three week assignment that was given in a Machine Learning course at Columbia University. The assignment presented students with an introduction to machine learning research. The assignment required students to apply Genetic Programming to evolve algorithms that play the board game Othello. The students were provided with an implemented experimental approach as a starting point. The students were required to perform their own experimental modifications cor ...

86 Using assortative mating in genetic algorithms for vector quantization problems
Carlos Fernandes, Rui Tavares, Cristian Munteanu, Agostinho Rosa
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: pdf(93.63 KB)   Additional Information: full citation, references, index terms

Keywords: assortative mating, genetic algorithm, genetic diversity

87 Using genetic algorithms to generate Steiner triple systems
Stephen J. Hartley, Aaron H. Konstam
March 1993 **Proceedings of the 1993 ACM conference on Computer science**

Full text available: pdf(748.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

Steiner systems, particularly triple systems, are usually generated by mathematicians using techniques from the theory of groups and quasi-groups. When pencil-and-paper enumeration becomes infeasible, mathematicians have used computers to carry out exhaustive searches. This paper presents some results of using genetic algorithms, which do not use exhaustive search, to generate Steiner systems. A specialized mutation operator was effective in generating Steiner triple systems. Future researc ...

88 A genetic-algorithm approach to solving crossword puzzles
Titus D. M. Purdin, Geoff Harris
March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**
Full text available: pdf(654.57 KB)   Additional Information: full citation, references, index terms

89 A genetic local search algorithm for random binary constraint satisfaction problems
Elena Marchiori, Adri Steenbeek
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(449.20 KB)   Additional Information: full citation, references, index terms

90 A genetic algorithm for fragment allocation in a distributed database system
Arthur L. Corcoran, John Hale
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**
Full text available: pdf(486.92 KB)   Additional Information: full citation, references, index terms

Keywords: distributed databases, genetic algorithms

91 Genetic algorithm for fuzzy modeling of robotic manipulators

Trung T. Pham

February 1996 **Proceedings of the 1996 ACM symposium on Applied Computing**

Full text available: pdf(440.80 KB)   Additional Information: full citation, references, index terms

92 Dynamic state traversal for sequential circuit test generation

Michael S. Hsiao, Elizabeth M. Rudnick, Janak H. Patel

July 2000 **ACM Transactions on Design Automation of Electronic Systems (TODAES),**
Volume 5 Issue 3

Full text available: pdf(138.10 KB)   Additional Information: full citation, abstract, references, citings, index terms

A new method for state justification is proposed for sequential circuit test generation. The linear list of states dynamically obtained during the derivation of test vectors is used to guide the search during state justification. State-transfer sequences that drive the circuit from the current state to the target state may already be known. Otherwise, genetic engineering of existing state-transfer sequences is required. In both cases, genetic-algorithm-based techniques are ...

Keywords: automatic test pattern generation (ATPG), finite-state-machine traversal, genetic algorithms, sequential circuits, simulation-based, testing

93 Hierarchical strategy of model partitioning for VLSI-design using an improved mixture of experts approach

K. Hering, R. Haupt, Th. Villmann

July 1996 **ACM SIGSIM Simulation Digest , Proceedings of the tenth workshop on Parallel and distributed simulation,** Volume 26 Issue 1

Full text available: pdf(801.29 KB)   Additional Information: full citation, references, index terms

94 Initializability analysis of synchronous sequential circuits

F. Corno, P. Prinetto, M. Rebaudengo, M. Sonza Reorda, G. Squillero

April 2002 **ACM Transactions on Design Automation of Electronic Systems (TODAES),**
Volume 7 Issue 2

Full text available: pdf(225.60 KB)   Additional Information: full citation, abstract, references, index terms

This article addresses the problem of initializing synchronous sequential circuits, that is, of generating the shortest sequence able to drive the circuit to a known state, regardless of the initial state. Logic initialization is considered, being the only one compatible with current commercial tools. A hybrid Genetic Algorithm is proposed, which combines general ideas from evolutionary computation with specific techniques, well suited to the addressed problem. For the first time, experimental r ...

Keywords: Circuit initialization, Evolutionary Algorithms

95 Gate-level test generation for sequential circuits

Kwang-Ting Cheng

October 1996 **ACM Transactions on Design Automati n of Electronic Systems (TODAES),** Volume 1 Issue 4

Full text available: pdf(448.19 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper discusses the gate-level automatic test pattern generation (ATPG) methods and techniques for sequential circuits. The basic concepts, examples, advantages, and limitations of representative methods are reviewed in detail. The relationship between gate-

level sequential circuit ATPG and the partial scan design is also discussed.

Keywords: IC testing, automatic test generation, sequential circuit test generation, testing

96 Designing RNA structures: natural and artificial selection

Barry Cohen, Steven Skiena

April 2002 **Proceedings of the sixth annual international conference on Computational biology**

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, references, index terms

Messenger RNA (mRNA) sequences serve as templates for proteins according to the triplet code, in which each of the $4^3 = 64$ different codons (sequences of three consecutive nucleotide bases) in RNA either terminate transcription or map to one of the 20 different amino acids (or residues) which build up proteins. Because there are more codons than residues, there is inherent redundancy in the coding. Certain residues (e.g. tryptophan) have only a single corresponding codon, while other ...

97 Polypeptide structure prediction: real-value versus binary hybrid genetic algorithms

Charles E. Kaiser, Gary B. Lamont, Laurence D. Merkle, George H. Gates, Ruth Pachter

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(727.53 KB)   Additional Information: full citation, references, citings, index terms

Keywords: genetic algorithms, hybrid genetic algorithms, polypeptide structure prediction, protein folding, real-valued genetic algorithms

98 Device-level early floorplanning algorithms for RF circuits

Mehmet Aktuna, Rob A. Rutenbar, L. Richard Carley

April 1998 **Proceedings of the 1998 international symposium on Physical design**

Full text available: pdf(1.14 MB)   Additional Information: full citation, abstract, references, citings, index terms

High-frequency circuits are notoriously difficult to lay out because of the tight coupling between device-level placement and wiring. Given that successful electrical performance requires careful control of the lowest-level geometric features—wire bends, precise length, proximity, planarity, etc.—we suggest a new layout strategy for these circuits: early floorplanning at the device level. This paper develops a floorplanner for RF circuits based on a genetic algorithm (GA) that s ...

99 Designing seeds for similarity search in genomic DNA

Jeremy Buhler, Uri Keich, Yanni Sun

April 2003 **Proceedings of the seventh annual international conference on Computational molecular biology**

Full text available: pdf(246.01 KB)   Additional Information: full citation, abstract, references, index terms

Large-scale comparison of genomic DNA is of fundamental importance in annotating functional elements of genomes. To perform large comparisons e.ciently, BLAST [3, 2] and other widely used tools use seeded alignment, which compares only sequences that can be shown to share a common pattern or "seed" of matching bases. The literature suggests that the choice of seed substantially affects the sensitivity of seeded alignment, but designing and evaluating seeds is computationally challenging. This wo ...

Keyw rds: Mandala, biosequence comparison, genomic DNA, seed design, similarity search

100 Genome-wide polymerase chain reaction primer design

Hai-Hui Huang, G. E. Hedrick, Robert Burnap, Haobo Liu

March 2000 **Pr ceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(587.37 KB)   Additional Information: full citation, references, index terms

Keyw rds: DNA chips, client/server model, genome, polymerase chain reaction (PCR), primer design

Results 81 - 100 of 200   Result page: previous   1   2   3   4   **5**   6   7   8   9   10   next

Useful downloads: Adobe Acrobat   QuickTime   Windows Media Player   Real Player

P⬢RTAL

US Patent & Trademark Office

Search: ○ The Guide   ◉ The ACM Digital Library

(genetic <near/2> design) and (simulating <near/2> annealin   **SEARCH**

†⁵ Feedback Report a problem Satisfaction survey

Terms used
g netic near/2 design and **simulating near/2 annealing**

Found **27,538** of **112,413**

Sort results by [relevance ▼]

Display results [expanded form ▼]

◆ Save results to a Binder
🔲 Search Tips
☐ Open results in a new window

Try an Advanced Search
Try this search in The ACM Guide

Results 1 - 20 of 200   Result page: **1** 2 3 4 5 6 7 8 9 10   next
Best 200 shown   Relevance scale ☐ ▭ ▬ ▰ ■

1 Reconstructing occlusal surfaces of teeth using a genetic algorithm with simulated annealing type selection   ▬
Vladimir Savchenko, Lothar Schmitt
May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**
Full text available: 🗎 pdf(708.02 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present an application of numerical optimization for surface reconstruction (more precisely: reconstruction of missing parts of a real geometric object represented by volume data) by employing a specially designed genetic algorithm to solve a problem concerning computer-aided design in dentistry. Using a space mapping technique the surface of a given model tooth is fitted by a shape transformation to extrapolate (or reconstruct) the remaining surface of a patient's tooth wit ...

Keywords: computer-aided restoration design, constructive solid geometry, genetic algorithm, simulated annealing, space mapping, surface reconstruction, volume modeling

2 Solving combinatorial optimization problems using parallel simulated annealing and parallel genetic algorithms   ▬
Pooja P. Mutalik, Leslie R. Knight, Joe L. Blanton, Roger L. Wainwright
March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**
Full text available: 🗎 pdf(862.26 KB)   Additional Information: full citation, references, citings, index terms

3 Comparison of global search methods for design optimization using simulation   ▬
B. Stuckman, G. Evans, M. Mollaghasemi
December 1991 **Proceedings of the 23rd conference on Winter simulation**
Full text available: 🗎 pdf(687.84 KB)   Additional Information: full citation, references, citings, index terms

4 Interactive manipulation of rigid body simulations   ▬
Jovan Popović, Steven M. Seitz, Michael Erdmann, Zoran Popović, Andrew Witkin
July 2000 **Proceedings of the 27th annual conference n C mputer graphics and interactive techniques**
Full text available: 🗎 pdf(886.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

Physical simulation of dynamic objects has become commonplace in computer graphics because it produces highly realistic animations. In this paradigm the animator provides few physical parameters such as the objects' initial positions and velocities, and the simulator automatically generates realistic motions. The resulting motion, however, is difficult to control because even a small adjustment of the input parameters can drastically affect the subsequent motion. Furthermore, the animator o ...

Keywords: animation with constraints, physically based animation

5   Artificial intelligence approaches to software engineering: Using genetic algorithms and coupling measures to devise optimal integration test orders

Lionel C. Briand, Jie Feng, Yvan Labiche
July 2002   **Proceedings of the 14th international conference on Software engineering and knowledge engineering**
Full text available: pdf(94.62 KB)   Additional Information: full citation, abstract, references, citings

We present here an improved strategy to devise optimal integration test orders in object-oriented systems. Our goal is to minimize the complexity of stubbing during integration testing as this has been shown to be a major source of expenditure. Our strategy to do so is based on the combined use of inter-class coupling measurement and genetic algorithms. The former is used to assess the complexity of stubs and the latter is used to minimize complex cost functions based on coupling measurement. Us ...

Keywords: genetic algorithms, integration order, integration testing, object-oriented software engineering

6   MAELSTROM: efficient simulation-based synthesis for custom analog cells

Michael Krasnicki, Rodney Phelps, Rob A. Rutenbar, L. Richard Carley
June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation conference**
Full text available: pdf(129.41 KB)   Additional Information: full citation, references, citings, index terms

7   VLSI cell placement techniques

K. Shahookar, P. Mazumder
June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available: pdf(5.28 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...

Keywords: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

8   A combined simulation/optimization approach to process plant design

J. F. Faccenda, R. F. Tenga
December 1992 **Pr ceedings of the 24th c nference on Winter simulati n**
Full text available: pdf(590.01 KB)   Additional Information: full citation, references, citings, index terms

9 A combination of genetic algorithm and simulated evolution techniques for clustering
Jay Bhuyan
February 1995 **Proceedings of the 1995 ACM 23rd annual conference on Computer science**
Full text available: pdf(851.14 KB)   Additional Information: full citation, references, index terms

10 A performance-driven IC/MCM placement algorithm featuring explicit design space exploration
Henrik Esbensen, Ernest S. Kuh
January 1997 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 2 Issue 1
Full text available: pdf(485.86 KB)   Additional Information: full citation, abstract, references, index terms, review

A genetic algorithm for building-block placement of ICs and MCMs is presented that simultaneously minimizes layout area and an Elmore-based estimate of the maximum path delay while trying to meet a target aspect ratio. Explicit design space exploration is performed by using a vector-valued, 3-dimensional cost function and searching for a set of distinct solutions representing the best trade-offs of the cost dimensions. From the output solutions, the designer can choose the solution with the ...

Keywords: design space exploration, timing-driven building-block placement

11 SAARA: a simulated annealing algorithm for test pattern generation for digital circuits
Fulvio Corno, Paolo prinetto, Maurizio Rebaudenpgo, Matteo Sonza Reorda
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**
Full text available: pdf(436.17 KB)   Additional Information: full citation, references, index terms

Keywords: simulated annealing, test pattern generation

12 Parallel two-level simulated annealing
Guo-Liang Xue
August 1993 **Proceedings of the 7th international conference on Supercomputing**
Full text available: pdf(915.41 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we propose a new kind of simulated annealing algorithm called two-level simulated annealing for solving certain class of hard combinatorial optimization problems. This two-level simulated annealing algorithm is less likely to get stuck at a non-global minimizer than conventional simulated annealing algorithms. We also propose a parallel version of our two-level simulated annealing algorithm and discuss its efficiency. This new technique is then applied to the ...

13 Introductory tutorials: Simulation optimization
Michael C. Fu
December 2001 **Proceedings of the 33nd conference on Winter simulation**
Full text available: pdf(143.59 KB)   Additional Information: full citation, abstract, references

In this tutorial introduction to simulation optimization, we present motivating and illustrative examples, summarize most of the major approaches, and briefly describe some software implementations. The focus is on issues and concepts, rather than mathematical rigor, so the format is Q & A rather than theorem-proof.

14 Enhanced simulated annealing for automatic reconfiguration of multiprocessors in

space
J. R. Slagle, A. Bose, P. Busalacchi, C. Wee
June 1989 **Proceedings f the second international conference on Industrial and
engineering applications f artificial intelligence and expert systems –
Volume 1**
Full text available: pdf(713.91 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes our recent results in developing enhanced simulated annealing
algorithms using a LISP environment. The application is to use simulated annealing for
automatic reconfiguration of multiprocessors in space. Our approach to solving this problem
involves a combination of object-oriented programming, search strategies, knowledge based
reasoning, and an advanced reconfiguration algorithm. The application was developed and is
being enhanced on a LISP workstation (Xerox Dandelio ...

15 Enhanced simulated annealing for globally minimizing functions of many-continuous
variables
Patrick Siarry, Gérard Berthiau, François Durdin, Jacques Haussy
June 1997 **ACM Transactions on Mathematical Software (TOMS)**, Volume 23 Issue 2
Full text available: pdf(151.17 KB)   Additional Information: full citation, abstract, references, citings, index
terms, review

A new global optimization algorithm for functions of many continuous variables is presented,
derived from the basic Simulated annealing method. Our main contribution lies in dealing
with high-dimensionality minimization problems, which are often difficult to solve by all
known minimization methods with or without gradient. In this article we take a special
interest in the variables discretization issue. We also develop and implement several
complementary stopping criteria. The original Metr ...

Keywords: global optimization, stochastic optimization, test functions

16 Simulation optimization: methods and applications
Yolanda Carson, Anu Maria
December 1997 **Proceedings of the 29th conference on Winter simulation**
Full text available: pdf(1.04 MB)   Additional Information: full citation, references, citings, index terms

17 Session 6D: Analog synthesis: ASF: a practical simulation-based methodology for the
synthesis of custom analog circuits
Michael J. Krasnicki, Rodney Phelps, James R. Hellums, Mark McClung, Rob A. Rutenbar, L.
Richard Carley
November 2001 **Proceedings of the 2001 IEEE/ACM international conference on
Computer-aided design**
Full text available: pdf(225.63 KB)   Additional Information: full citation, abstract, references

This paper describes ASF, a novel cell-level analog synthesis framework that can size and
bias a given circuit topology subject to a set of performance objectives and a manufacturing
process. To manage complexity and time-to-market, SoC designs require a high level of
automation and reuse. Digital methodologies are inapplicable to analog IP, which relies on
tight control of low-level device and circuit properties that vary widely across manufacturing
processes. This analog synthesis solution aut ...

18 Advanced tutorials: Simulation optimization: a survey of simulation optimization
techniques and procedures
James R. Swisher, Paul D. Hyden, Sheldon H. Jacobson, Lee W. Schruben
December 2000 **Proceedings f the 32nd conference on Winter simulation**
Full text available: pdf(233.66 KB)   Additional Information: full citation, abstract, references, citings

Discrete-event simulation optimization is a problem of significant interest to practitioners

interested in extracting useful information about an actual (or yet to be designed) system that can be modeled using discrete-event simulation. This paper presents a brief survey of the literature on discrete-event simulation optimization over the past decade (1988 to the present). Swisher et al. (2000) provides a more comprehensive review of this topic while Jacobson and Schruben (1989) covers the liter ...

19 A parallel genetic algorithm for the graph partitioning problem

E.-G. Talbi, P. Bessière
June 1991 **Proceedings of the 5th international conference on Supercomputing**

Full text available: pdf(801.46 KB)   Additional Information: full citation, references, index terms

20 Heuristic and randomized optimization for the join ordering problem

Michael Steinbrunn, Guido Moerkotte, Alfons Kemper
August 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 6 Issue 3
Full text available: pdf(385.47 KB)   Additional Information: full citation, abstract

Recent developments in database technology, such as deductive database systems, have given rise to the demand for new, cost-effective optimization techniques for join expressions. In this paper many different algorithms that compute approximate solutions for optimizing join orders are studied since traditional dynamic programming techniques are not appropriate for complex problems. Two possible solution spaces, the space of left-deep and bushy processing trees, are evaluated from a statistical p ...

Keywords: Genetic algorithms, Heuristic algorithms, Join ordering, Query optimization, Randomized algorithms

Results 1 - 20 of 200   Result page: **1**   2   3   4   5   6   7   8   9   10   next

GA design of crisp-fuzzy logic controllers

Full text   📄Pdf (549 KB)

Source   **Symposium on Applied Computing** archive
Proceedings of the 1999 ACM symposium on Applied computing table of contents
San Antonio, Texas, United States
Pages: Pages: 238 - 242
Year of Publication: 1999
ISBN:1-58113-086-4

Authors   Kuan-Shiu Chiu
Andrew Hunter

Sponsors   SIGADA: ACM Special Interest Group on Ada Programming Language
SIGCUE: ACM Special Interest Group on Computer Uses In Education
SIGAPP: ACM Special Interest Group on Applied Computing
SIGBIO: ACM Special Interest Group on Biomedical Computing

Publisher   ACM Press   New York, NY, USA

Additional Information: references   index terms

Tools and Actions: Discussions   Find similar Articles   Review this Article
Save this Article to a Binder   Display in BibTex Format

DOI Bookmark: Use this link to bookmark this Article: http://doi.acm.org/10.1145/298151.298337
What is a DOI?

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

1   Chiu K. and Htmter A. (1997) "Genetic Design of Real- Time Fttzz~ Logic Controllers," b~ternational co,fere,ce ~~PERSI:S-97, Sunderland, U.K., pp. 245- 250, Oct. 15-16, 1997.

2   Cord6n O., Herrem F., mid Lozano M. (1996) "A Classifitxt Review on the Combination Fuzzy. Logic- Genetic Algoritluns Bibliography," Technical Report DECS.41-95129, Dept. of Computer Science and A.i., University of Granada, 1996. http://decsai, ugr. es/--lozano/public.html accessed March 23, 1998

3   Htmter A., Hare G., and Brown K. (1997)"Genetic Design of Real-Time Neural Network Controllers," :5k,,ral Computing & Application& Vol. 6, pp. 12-18, 1997.

4   Hunter A. (1998) 'Crossing Over Genetic Algorithms: The Sugal Generalised GA," Journal of Heuristics, Vol. 4, No. 2, pp. 179-192, July 1998.

5   Petersen S. (1987) "Real Time Control of Urban Drainage Systems," M.sc. Thesis, Dept. of En,dromnental Engineering, Technical University. of Dem~mrk, August 1987, ISBN 87-89220-04--8.

6   Schilling W. (1992) "The Feasibility of Real Time Control of Combined Sewer Overflows," Civil E,gi,eering Practice, Vol. 7, No. 2, pp. 17-26, 1992.

↑ **INDEX TERMS**

Primary Classification:
I. Computing Methodologies
↳ **I.2** ARTIFICIAL INTELLIGENCE

Additional Classification:
I. Computing Methodologies
↳ **I.2** ARTIFICIAL INTELLIGENCE

General Terms:
Design, Management

Keywords:
fuzzy logic control, genetic algorithms, real-time control

↑ **INDEX TERMS**

Terms used **genetic near/2 design**   Found **7,447** of **112,413**

Sort results by [relevance ▾]   ◈ Save results to a Binder   Try an Advanced Search
                                                                       Try this search in The ACM Guide
Display results [expanded form ▾]   ⸬ Search Tips
                                    ☐ Open results in a new
                                    window

Results 1 - 20 of 200   Result page: **1** 2 3 4 5 6 7 8 9 10   next
Best 200 shown   Relevance scale ☐ ⊟ ⊟ ⊞ ▣

1 Artificial intelligence approaches to software engineering: Using genetic algorithms and ⊟
coupling measures to devise optimal integration test orders
Lionel C. Briand, Jie Feng, Yvan Labiche
July 2002   **Proceedings of the 14th international conference on Software engineering
and knowledge engineering**
Full text available: ⬚ pdf(94.62 KB)   Additional Information: full citation, abstract, references, citings

We present here an improved strategy to devise optimal integration test orders in object-
oriented systems. Our goal is to minimize the complexity of stubbing during integration
testing as this has been shown to be a major source of expenditure. Our strategy to do so is
based on the combined use of inter-class coupling measurement and genetic algorithms. The
former is used to assess the complexity of stubs and the latter is used to minimize complex
cost functions based on coupling measurement. Us ...

Keywords: genetic algorithms, integration order, integration testing, object-oriented
software engineering

2 Reviewed papers: Comparing the template method and strategy design patterns in a ⊟
genetic algorithm application
Michael R. Wick, Andrew T. Phillips
December 2002 **ACM SIGCSE Bulletin**, Volume 34 Issue 4
Full text available: ⬚ pdf(63.24 KB)   Additional Information: full citation, abstract, references

We present a genetic algorithm software project that serves to give students direct
experience with choosing among multiple potentially applicable design patterns. We carefully
constructed this project to illustrate the power of design patterns in supporting encapsulation
while at the same time providing a single context in which to compare and contrast similar
design pattern alternatives.

3 Topological design of local-area networks using genetic algorithms ⊟
Reuven Elbaum, Moshe Sidi
October 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 5
Full text available: ⬚ pdf(1.32 MB)   Additional Information: full citation, references, index terms

4 Genetic algorithm based approach for designing computer network topology ▣
Anup Kumar, Rakesh M. Pathak, M. C. Gupta
March 1993 **Proceedings of the 1993 ACM conference n C mputer science**
Full text available: ⬚ pdf(832.23 KB)   Additional Information: full citation, abstract, references, index terms

One of the important features of computer networks is the potential for high reliability. The reliability of a network depends on many parameters such as connectivity, degree of each node, and average distance between any pair of nodes. The main focus of the problem considered in this paper is to design reliable computer network topologies. A generalized framework based on Genetic Algorithm is developed which is applicable to wide range of network design problems. Several topology design pr ...

5   Application of knowledge base design techniques to genetic markers
Mark Graves
December 1995 **Proceedings of the fourth international conference on Information and knowledge management**
Full text available: pdf(754.44 KB)   Additional Information: full citation, references, index terms

6   Interactive manipulation of rigid body simulations
Jovan Popović, Steven M. Seitz, Michael Erdmann, Zoran Popović, Andrew Witkin
July 2000   **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(886.24 KB)   Additional Information: full citation, abstract, references, citings, index terms

Physical simulation of dynamic objects has become commonplace in computer graphics because it produces highly realistic animations. In this paradigm the animator provides few physical parameters such as the objects' initial positions and velocities, and the simulator automatically generates realistic motions. The resulting motion, however, is difficult to control because even a small adjustment of the input parameters can drastically affect the subsequent motion. Furthermore, the animator o ...

Keywords: animation with constraints, physically based animation

7   Design space exploration and architectural design of HW/SW systems: Multi-objective design space exploration using genetic algorithms
Maurizio Palesi, Tony Givargis
May 2002   **Proceedings of the tenth international symposium on Hardware/software codesign**
Full text available: pdf(498.25 KB)   Additional Information: full citation, abstract, references

In this work, we provide a technique for efficiently exploring a parameterized system-on-a-chip (SoC) architecture to find all Pareto-optimal configurations in a multi-objective design space. Globally, our approach uses a parameter dependency model of our target parameterized SoC architecture to extensively prune non-optimal sub-spaces. Locally, our approach applies Genetic Algorithms (GAs) to discover Pareto-optimal configurations within the remaining design points. The computed Pareto-optimal ...

Keywords: Pareto-optimal configurations, design space exploration, genetic algorithms, low power design, system-on-a-chip architectures

8   Genetic algorithms for modelling, design, and process control
Charles L. Karr
December 1993 **Proceedings f the second internati nal c nference n Inf rmati n and knowledge management**
Full text available: pdf(577.55 KB)   Additional Information: full citation, references, index terms

9   Evolutionary co-operative design between human and computer: implementation of "the genetic sculpture park"

Duncan Rowland, Frank Biocca
February 2000 **Proceedings f the fifth symp sium n Virtual reality m deling language (Web3D-VRML)**

Full text available: 🔲 pdf(1.98 MB)   Additional Information: full citation, abstract, references, index terms

The Genetic Sculpture Park seeks to blur the distinction between artist and observer and to empower the novice in the creation of complex computer graphic models. Each visitor to the park experiences a unique set of forms and engages in a co-operative dialogue with the computer to produce more aesthetically pleasing designs. Inspired by Darwin's Theory of Evolution, Genetic Algorithms are used to allow visitors to 'breed' forms tailored to his or her own individual sense of aesthetics. This ...

10 Designing telecommunications networks using genetic algorithms and probabilistic minimum spanning trees

Faris N. Abuali, Dale A. Schoenefeld, Roger L. Wainwright
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: 🔲 pdf(567.60 KB)   Additional Information: full citation, references, citings, index terms

11 Parameterised system design based on genetic algorithms

Giuseppe Ascia, Vincenzo Catania, Maurizio Palesi
April 2001 **Proceedings of the ninth international symposium on Hardware/software codesign**

Full text available: 🔲 pdf(492.18 KB)   Additional Information: full citation, abstract, references, index terms

A recent reduction in the time to market has led to the development of a new approach to IP-based design in which a highly parametric pre-designed system-on-a-chip is configured according to the application it will have to execute. The greatest problems in this area regard exploration of the range of possible system configurations in search of the optimal configuration for a given system. There are, in fact, a number of parameters involved (bus sizes, cache configurations, software algorithms ...

Keywords: exploration of system configurations, genetic algorithms, parameterised systems

12 The application of genetic algorithms to the design of reconfigurable reasoning VLSI chips

Moritoshi Yasunaga, Jung Hwan Kim, Ikuo Yoshihara
February 2000 **Proceedings of the 2000 ACM/SIGDA eighth international symposium on Field programmable gate arrays**

Full text available: 🔲 pdf(672.51 KB)   Additional Information: full citation, abstract, index terms

In this paper, we present a new genetic-algorithm-based design methodology for reasoning VLSI chips, called as LoDETT (logic design with the evolved truth table). In LoDETT, each task's case database is transformed into truth tables, which are evolved to obtain generalization capability (i.e. rules behind the past cases) through genetic algorithms. Digital circuits are synthesized from the evolved truth-tables. Parallelism in each task can be embedded directly in the circuits by the direct ...

13 Evolution using genetic programming of a low-distortion, 96 decibel operational amplifier

John R. Koza, Forrest H. Bennett, David Andre, Martin A. Keane
April 1997 **Pr ceedings of the 1997 ACM symposium on Applied computing**

Full text available: 🔲 pdf(913.91 KB)   Additional Information: full citation, references, index terms

Keywords: analog circuit synthesis, automated circuit design, genetic programming,

operational amplifier

14 Reconstructing occlusal surfaces of teeth using a genetic algorithm with simulated annealing type selection

Vladimir Savchenko, Lothar Schmitt

May 2001 **Proceedings of the sixth ACM symp sium on Solid modeling and applications**

Full text available: pdf(708.02 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present an application of numerical optimization for surface reconstruction (more precisely: reconstruction of missing parts of a real geometric object represented by volume data) by employing a specially designed genetic algorithm to solve a problem concerning computer-aided design in dentistry. Using a space mapping technique the surface of a given model tooth is fitted by a shape transformation to extrapolate (or reconstruct) the remaining surface of a patient's tooth wit ...

Keywords: computer-aided restoration design, constructive solid geometry, genetic algorithm, simulated annealing, space mapping, surface reconstruction, volume modeling

15 HGA: a hardware-based genetic algorithm

Stephen D. Scott, Ashok Samal, Shared Seth

February 1995 **Proceedings of the 1995 ACM third international symposium on Field-programmable gate arrays**

Full text available: pdf(159.28 KB)   Additional Information: full citation, abstract, index terms

A genetic algorithm (GA) is a robust problem-solving method based on natural selection. Hardware's speed advantage and its ability to parallelize offer great rewards to genetic algorithms. Speedups of 1-3 orders of magnitude have been observed when frequently used software routines were implemented in hardware by way of reprogrammable field-programmable gate arrays (FPGAs). Reprogrammability is essential in a general-purpose GA engine because certain GA modules require changeability (e.g. t ...

Keywords: field programmable gate arrays, function optimization, parallel genetic algorithms, performance acceleration, performance evaluation

16 A performance-driven IC/MCM placement algorithm featuring explicit design space exploration

Henrik Esbensen, Ernest S. Kuh

January 1997 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 2 Issue 1

Full text available: pdf(485.86 KB)   Additional Information: full citation, abstract, references, index terms, review

A genetic algorithm for building-block placement of ICs and MCMs is presented that simultaneously minimizes layout area and an Elmore-based estimate of the maximum path delay while trying to meet a target aspect ratio. Explicit design space exploration is performed by using a vector-valued, 3-dimensional cost function and searching for a set of distinct solutions representing the best trade-offs of the cost dimensions. From the output solutions, the designer can choose the solution with the ...

Keywords: design space exploration, timing-driven building-block placement

17 DARWIN: CMOS opamp synthesis by means of a genetic algorithm

Wim Kruiskamp, Domine Leenaerts

January 1995 **Pr ceedings of the 32nd ACM/IEEE c nference on Design automati n c nference**

Full text available: pdf(197.88 KB)   Additional Information: full citation, references, citings, index terms

18 Evolving computer programs using rapidly reconfigurable field-programmable gate arrays and genetic programming

John R. Koza, Forest H. Bennett, Jeffrey L. Hutchings, Stephen L. Bade, Martin A. Keane, David Andre

March 1998 **Proceedings of the 1998 ACM/SIGDA sixth international symposium on Field programmable gate arrays**

Full text available: pdf(1.37 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes how the massive parallelism of the rapidly reconfigurable Xilinx XC6216 FPGA (in conjunction with Virtual Computing's H.O.T. Works board) can be exploited to accelerate the time-consuming fitness measurement task of genetic algorithms and genetic programming. This acceleration is accomplished by embodying each individual of the evolving population into hardware in order to perform the fitness measurement task. A 16-step sorting network for seven items was evolved that h ...

19 Comparison of global search methods for design optimization using simulation

B. Stuckman, G. Evans, M. Mollaghasemi

December 1991 **Proceedings of the 23rd conference on Winter simulation**

Full text available: pdf(687.84 KB)   Additional Information: full citation, references, citings, index terms

20 Fuzzy genetic controllers for the autonomous rendezvous and docking problem

Vijayarangan Gopalan, Abdollah Homaifar, M. Reza Salami, R. W. Dabney, Bijan Sayyarrodsari

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Full text available: pdf(582.45 KB)   Additional Information: full citation, references, index terms

Keywords: docking, fuzzy, genetic algorithm, transportation

Results 1 - 20 of 200   Result page: **1**   2   3   4   5   6   7   8   9   10   next

P🜨RTAL

US Patent & Trademark Office

Search: ○ The Guide ● The ACM Digital Library

author:P144651

SEARCH

THE ACM DIGITAL LIBRARY

ℹ️ Feedback Report a problem Satisfaction survey

Terms used **John R. Koza**   Found **2** of **112,413**

Sort results by [relevance ▢]   ❖ Save results to a Binder

Display results [expanded form ▢]   ❓ Search Tips

☐ Open results in a new window

Try an Advanced Search
Try this search in The ACM Guide

Results 1 - 2 of 2

Relevance scale ☐ ▢ ▣ ▣ ■

1 Evolution using genetic programming of a low-distortion, 96 decibel operational amplifier ▢
John R. Koza, Forrest H. Bennett, David Andre, Martin A. Keane
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: 📄 pdf(913.91 KB)   Additional Information: full citation, references, index terms

Keywords: analog circuit synthesis, automated circuit design, genetic programming, operational amplifier

2 Evolving computer programs using rapidly reconfigurable field-programmable gate arrays and genetic programming ▢
John R. Koza, Forest H. Bennett, Jeffrey L. Hutchings, Stephen L. Bade, Martin A. Keane, David Andre
March 1998 **Proceedings of the 1998 ACM/SIGDA sixth international symposium on Field programmable gate arrays**

Full text available: 📄 pdf(1.37 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes how the massive parallelism of the rapidly reconfigurable Xilinx XC6216 FPGA (in conjunction with Virtual Computing's H.O.T. Works board) can be exploited to accelerate the time-consuming fitness measurement task of genetic algorithms and genetic programming. This acceleration is accomplished by embodying each individual of the evolving population into hardware in order to perform the fitness measurement task. A 16-step sorting network for seven items was evolved that h ...

Results 1 - 2 of 2

PORTAL

US Patent & Trademark Office

Search: ○ The Guide ◉ The ACM Digital Library

genetic <near/2> design

SEARCH

THE ACM DIGITAL LIBRARY

🔖 Feedback Report a problem Satisfaction survey

Terms used **genetic** **near/2** **design**

Found **7,447** of **112,413**

Sort results by relevance

Display results expanded form

❖ Save results to a Binder

❓ Search Tips

☐ Open results in a new window

Try an Advanced Search
Try this search in The ACM Guide

Results 41 - 60 of 200   Result page: previous 1 2 **3** 4 5 6 7 8 9 10   next
Best 200 shown

Relevance scale ☐ ⬛ ⬛ ⬛ ⬛

41 Genetic VLSI circuit partitioning with two-dimensional geographic crossover and zigzag mapping ⬛
Buyng-Ro Moon, Yoon-Sik Lee, Chun-Kyung Kim
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**
Full text available: 📄 pdf(499.27 KB)   Additional Information: full citation, references, index terms

Keywords: circuit partitioning, equivalence class, genetic algorithm, geographic crossover, geographical linkage

42 Estimation of maximum power supply noise for deep sub-micron designs ⬛
Yi-Min Jiang, Kwang-Ting Cheng, An-Chang Deng
August 1998 **Proceedings of the 1998 international symposium on Low power electronics and design**
Full text available: 📄 pdf(814.48 KB)   Additional Information: full citation, abstract, citings, index terms

We propose a new technique for generating a small set of patterns to estimate the maximum power supply noise of deep sub-micron designs. We first build the charge/discharge current and output voltage waveform libraries for each cell, taking power and ground pin characteristics, the power net RC and other input characteristics as parameters. Based on the cells' current and voltage libraries, the power supply noise of a 2-vector sequence can be estimated efficiently by a cell-level wa ...

43 GSA: scheduling and allocation using genetic algorithm ⬛
Ali Shahid, Muhammed S. T. Benten, Sadiq M. Sait
September 1994 **Proceedings of the conference on European design automation conference**
Full text available: 📄 pdf(592.75 KB)   Additional Information: full citation, references, citings, index terms

44 A genetic algorithm for learning fuzzy controllers ⬛
Cezary Z. Janikow
April 1994 **Proceedings f the 1994 ACM symposium on Applied computing**
Full text available: 📄 pdf(674.97 KB) Additional Information: full citation, references, citings, index terms

Keywords: fuzzy control, genetic algorithms, rule-based learning

45 EXPLORER: an interactive floorplanner for design space exploration

H. Esbensen, E. Kuh

September 1996 **Pr ceedings of the conference with EURO-VHDL'96 and exhibition on European Design Automation**

Full text available: pdf(301.10 KB)   Additional Information: full citation, references, index terms

46 A genetic algorithm for macro cell placement

Henrik Esbensen

November 1992 **Proceedings of the conference on European Design Automation**

Full text available: pdf(597.27 KB)   Additional Information: full citation, references, citings, index terms

47 A weighted coding in a genetic algorithm for the degree-constrained minimum spanning tree problem

Günther R. Raidl, Bryant A. Julstrom

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(499.35 KB)   Additional Information: full citation, references, citings, index terms

Keywords: degree-constrained minimum spanning trees, genetic algorithms, weighted coding

48 Sequential circuit test generation in a genetic algorithm framework

Elizabeth M. Rudnick, Janak H. Patel, Gary S. Greenstein, Thomas M. Niermann

June 1994 **Proceedings of the 31st annual conference on Design automation conference**

Full text available: pdf(181.69 KB)   Additional Information: full citation, references, citings, index terms

49 Optimal RF design using smart evolutionary algorithms

Peter Vancorenland, C. De Ranter, M. Steyaert, G. Gielen

June 2000 **Proceedings of the 37th conference on Design automation**

Full text available: pdf(123.38 KB)   Additional Information: full citation, references, index terms

50 Optimizing for reduced code space using genetic algorithms

Keith D. Cooper, Philip J. Schielke, Devika Subramanian

May 1999 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1999 workshop on Languages, compilers, and tools for embedded systems**, Volume 34 Issue 7

Full text available: pdf(977.31 KB)   Additional Information: full citation, abstract, references, citings, index terms

Code space is a critical issue facing designers of software for embedded systems. Many traditional compiler optimizations are designed to reduce the execution time of compiled code, but not necessarily the size of the compiled code. Further, different results can be achieved by running some optimizations more than once and changing the order in which optimizations are applied. Register allocation only complicates matters, as the interactions between different optimizations can cause more spill c ...

51 Towards integrated safety analysis and design

P. Fenelon, J. A. McDermid, M. Nicolson, D. J. Pumfrey

March 1994 **ACM SIGAPP Applied Computing Review**, Volume 2 Issue 1

Full text available: ⎙ pdf(1.02 MB)   .   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

There are currently many problems with the development and assessment of software intensive safety-critical systems. In this paper we describe the problems, and introduce a novel approach to their solution, based around goal-structuring concepts, which we believe will ameliorate some of the difficulties. We discuss the use of modified and new forms of safety assessment notations to provide evidence of safety, and the use of data derived from such notations as a means of providing quantified inpu ...

Keywords: architectural design, automated design, goal structures, method integration, safety assessment

---

52 <u>Solving combinatorial optimization problems using parallel simulated annealing and parallel genetic algorithms</u>

Pooja P. Mutalik, Leslie R. Knight, Joe L. Blanton, Roger L. Wainwright
March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**
Full text available: ⎙ pdf(862.26 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

---

53 <u>Application of genetic algorithms to the algebraic simplification of tensor polynomials</u>

M. Kavian, R. G. McLenaghan, K. O. Geddes
July 1997 **Proceedings of the 1997 international symposium on Symbolic and algebraic computation**
Full text available: ⎙ pdf(1.09 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

---

54 <u>Efficient algorithms for protein sequence design and the analysis of certain evolutionary fitness landscapes</u>

Jon M. Kleinberg
April 1999 **Proceedings of the third annual international conference on Computational molecular biology**
Full text available: ⎙ pdf(1.52 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

---

55 <u>An updated survey of GA-based multiobjective optimization techniques</u>

Carlos A. Coello
June 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 2
Full text available: ⎙ pdf(250.77 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

After using evolutionary techniques for single-objective optimization during more than two decades, the incorporation of more than one objective in the fitness function has finally become a popular area of research. As a consequence, many new evolutionary-based approaches and variations of existing techniques have recently been published in the technical literature. The purpose of this paper is to summarize and organize the information on these current approaches, emphasizing the importanc ...

Keywords: artificial intelligence, genetic algorithms, multicriteria optimization, multiobjective optimization, vector optimization

---

56 <u>VLSI cell placement techniques</u>

K. Shahookar, P. Mazumder
June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Full text available: 📄 pdf(5.28 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...

Keywords: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

57 An evolutionary hybrid approach to the design of a decision support system
V. Loia, A. Staiano, R. Tagliaferri, S. Sessa
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: 📄 pdf(416.36 KB)   Additional Information: full citation, references, index terms

Keywords: decision support systems, fuzzy logic, genetic computation, neural networks

58 N-group classification using genetic algorithms
Aaron H. Konstam
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**

Full text available: 📄 pdf(584.82 KB)   Additional Information: full citation, references, citings, index terms

Keywords: classification, genetic algorithms, linear discriminant functions

59 Steps towards an ecology of infrastructure: complex problems in design and access for large-scale collaborative systems
Susan Leigh Star, Karen Ruhleder
October 1994 **Proceedings of the 1994 ACM conference on Computer supported cooperative work**

Full text available: 📄 pdf(1.49 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper analyzes the initial phases of a large-scale custom software effort, the Worm Community System (WCS), a collaborative system designed for a geographically dispersed community of geneticists. Despite high user satisfaction with the system and interface, and extensive user feedback and analysis, many users experienced difficulties in signing on and use, ranging from simple lack of resources to complex organizational and intellectual trade-offs. Using Bateson's levels of learning, w ...

Keywords: collaboratory, ethnography, infrastructure, organizational computing, participatory design

60 An empirical study of non-binary genetic algorithm-based neural approaches for classification
Parag C. Pendharkar, James A. Rodger
January 1999 **Proceeding of the 20th international conference on Information Systems**

Full text available: 📄 pdf(192.45 KB)   Additional Information: full citation, references, citings, index terms

Results 41 - 60 of 200   Result page: previous   1   2   **3**   4   5   6   7   8   9   10   next

Useful downloads: Adobe Acrobat   QuickTime   Windows Media Player   Real Player

An exploration into evolutionary mod ls for non-routine design
(1997) (Make Corrections) (3 citations)
M.A. Rosenman

View or download:
usyd.edu.au/~mike/mikepaperWD5.pdf
Cached: PS.gz PS PDF DjVu Image Update H

CiteSeer Home/Search Bookmark Context Related

From: usyd.edu.au/~mike/publications (more)
Homepages: M.Rosenman HPSearch (Update Links)

(Enter summary)

Rate this article: 1 2 3 4 5 (be
Comment on this article

Abstract: This paper explores some of the issues involved in the use of evolutionary models (Update)

Context of citations to this paper: More

...is arranged in alphabetical order by the name of the journal. Applied Mathematics and Computation, 211] Artif. Intell. Eng. **UK [168, 182, 196]** Artif. Intell. Eng. Des. Anal. Manuf. 12] ASCE Journal of Water Resource Planning and Management, 21] Aust Comput. J. 143]...

...[23] were the first to evolve computer graphics objects via aesthetic selection. **Images [10] 29] 12] sculpture [25] architectu [4] 6][19][24] image processing [17] consumer products [3] 8] 11] human bodies [15] and faces [2] 5] and character motion [1] 16] 30] have all**...

Cited by: More
An Implicit Surface Prototype for Evolving Human Figure Geometry - Lewis, Parent (2000)   (Correct)
Aesthetic Evolutionary Design with Data Flow Networks - Lewis   (Correct)
An Indexed Bibliography of Genetic Algorithms in the Australia - Alander (1999)   (Correct)

Similar documents (at the sentence level):
10.6%: Knowledge-Based Research at the Key Centre of Design Computing by.. - Ju Ly (1994)   (Correct)

Active bibliography (related documents):   More All
2.1: The Generation Of Form Using An Evolutionary Approach - Rosenman (1997)   (Correct)
0.7: Evolving Designs By Generating Useful Complex Gene Structures - Rosenman, Gero (1999)   (Correct)
0.6: An Indexed Bibliography of Genetic Algorithms in Computer Aided.. - Alander (1997)   (Correct)

Similar documents based on text: More All
0.2: NoDes: kNOwledge based modeling for detailed DESign process .. - Manolya Kavakli Key   (Correct)
0.2: Camera Calibration In A Hazardous Environment Performed In.. - Frederick Depiero (1993)   (Correct)
0.1: Adapting Evolutionary Computing For Exploration In Creative.. - Gero, Maher   (Correct)

Related documents from co-citation: More All
3: A parallel genetic algorithm for solving the school timetabling problem - Abramson, Abela - 1991
2: Chair Farm (context) - Design - 2000
2: Evolutionary Form Design: The Application of Genetic Algorithmic Techniques to C.. (context) - Graham, Wood et al. - 1999

BibTeX entry: (Update)

M. A. Rosenman. An exploration into evolutionary models for non-routine for design. Artif. Intell. Eng. (UK), 11(3):287-293, 199 yCCA59760/97 ga97aRosenman. http://citeseer.nj.nec.com/rosenman97exploration.html More

```
@misc{ rosenman97exploration,
  author = "M. Rosenman",
  title = "An exploration into evolutionary models for non-routine for design",
  text = "M. A. Rosenman. An exploration into evolutionary models for non-routine
    for design. Artif. Intell. Eng. (UK), 11(3):287-293, 1997. yCCA59760/97
    ga97aRosenman.",
  year = "1997",
  url = "citeseer.nj.nec.com/rosenman97exploration.html" }
```

Citations (may not include all citations):

CiteSeer Find: | genetic design | | Documents | | Citations |

Searching for **PHRASE genetic design**.
Restrict to: Header Title Order by: Citations Hubs Usage Date Try: Amazon B&N Google (RI) Google (Web) CS DBLP
44 documents found. **Order: citations weighted by year.**

Genetic algorithm-based interactive segmentation of.. - Cagnoni.. (1999) (Correct) (9 citations)
structures in 3D medical data sets. The **\genetic design**" is based on a small set of manually-traced
model, based on such contours During **genetic design**, the GA is required to yield optimum
www.cs.bham.ac.uk/~rmp/papers/Cagnoni-IAVC1999.ps.gz

A Genetic Local Search Approach to the Quadratic Assignment.. - Merz, Freisleben (1997) (Correct) (11 citations)
components. An important question is how to **design genetic** operators that yield better (locally optimal)
ftp.informatik.uni-siegen.de/pub/papers/pmerz/icga97.ps.gz

Genetic Design of Fuzzy Controllers - Cooper, Vidal (1993) (Correct) (11 citations)
1 **Genetic Design** of Fuzzy Controllers Mark G. Cooper &
[3] M.G. Cooper and J.J. Vidal. **Genetic design** of fuzzy controllers. In Proceedings 2nd
ftp.cs.ucla.edu/tech-report/94-reports/940007.ps.Z

Searching in the Presence of Noise - Rana, Whitley, Cogswell (1996) (Correct) (5 citations)
of search algorithms can be surprising. By **design, genetic** algorithms should be effective search
www.cs.colostate.edu/~genitor/1996/ppsn96.ps.gz

An exploration into evolutionary models for non-routine design - Rosenman (1997) (Correct) (3 citations)
Keywords: evolutionary design, non-routine **design, genetic** algorithms 1 INTRODUCTION Design is a
www.arch.usyd.edu.au/~mike/mikepaperWD5.pdf

Working from Blueprints: Evolutionary Learning for Design - Louis (1997) (Correct) (3 citations)
the feasibility of this approach. Key words: **Design, Genetic** Algorithms, Case-Based Reasoning 1
www.cs.unr.edu/~sushil/work/papers/aid_journal/pos.ps

A Genetic Methodology for Configuration Design - Roston (1994) (Correct) (5 citations)
consideration. This methodology, called **Genetic Design** (GD)uses formal grammars for artifact
. 38 4 **Genetic Design** .
reports-archive.adm.cs.cmu.edu/anon/robotics/CMU-RI-TR-94-42.ps.GZ

Genetic Design of Fuzzy Controllers: The Cart and Jointed-Pole .. - Cooper, Vidal (1994) (Correct) (5 citations)
Genetic Design of Fuzzy Controllers: The Cart and
[1] Cooper, M.G. J.J. Vidal (1993) **Genetic Design** of Fuzzy Controllers"Presented at the
ftp.cs.ucla.edu/tech-report/94-reports/940008.ps.Z

Genetic Design Of VLSI-Layouts - Schnecke, Vornberger (1995) (Correct) (4 citations)
lee Conf. Publication No. 414, Pp. 430-435 **Genetic Design** Of Vlsi-Layouts Volker Schnecke Oliver
53. Schnecke, V. and Vornberger, O.1995)**Genetic Design** of VLSI-Layouts. In Genetic Algorithms in
www.bch.msu.edu/labs/kuhn/web/volker/postscripts/galesia_95.ps.Z

Object-based Design Modeling and Optimization with Genetic.. - Nicola Senin David (1999) (Correct) (1 citation)
object-based design modeling, catalog-based **design, genetic** algorithms 1. Introduction 1.1. Design
cadlab.mit.edu/publications/99-senin-GECCO/dontindex/senin-GECCO.pdf

Genetic Design of Optimum Linear and Non-linear QRS Detectors - Poli, Cagnoni, Valli (1995) (Correct) (3 citations)
Title: **Genetic Design** of Optimum Linear and Non-linear QRS
44-121-414-3739 Fax: 44-121-414-4281 1 **Genetic Design** of Optimum Linear and Non-linear QRS
www.cs.bham.ac.uk/~rmp/papers/Poli-IEEETBME1995.ps.gz

Overview of a Generic Evolutionary Design System - Bentley Wakefield (1996) (Correct) (3 citations)
are presented. Key words: evolutionary **design, genetic** algorithm 1. Introduction The optimisation
www.bioele.nuee.nagoya-u.ac.jp/wec2/papers/files/bentley.ps.gz

CBR as a Framework for Design: Augmenting CBR with other AI.. - Maher (1998) (Correct) (1 citation)
a capability that seems necessary for creative **design. Genetic** Algorithms (GAs) provide an alternative to

www.aic.nrl.navy.mil/~aha/aaai98-cbrw/papers/maher.ps

Genetic Design of 3D Modular Manipulators - Chocron And Bidaud (1997)   (Correct)   (1 citation)
Albuquerque, USA, April 20-25, 1997 **Genetic Design** of 3D Modular Manipulators O. Chocron and P.
[Chocron97] O. Chocron and P. Bidaud. **Genetic design** of 3d modular manipulators. In Proceedings of
ftp.robot.uvsq.fr/pub/publications/articles/proc9706.ps.gz

The BEAM: Towards a first EAM Implementation - Lopes, Costa (1997)   (Correct)   (1 citation)
intelligence, database programming, circuit **design, genetic** sequencing, expert systems, compilers,
www.ncc.up.pt/~rslopes/papers/ilps97.ps.gz

Co-evolutionary Design: Implications for Evolutionary Robotics - Seth Bullock School   (Correct)   (3 citations)
evolution measures up to it. 2 Co-evolutionary **Design Genetic** Algorithms (GAs) are a design/optimisation
mech.fme.vutbr.cz/pub/archive/Csrp384.ps

Genetically Designing Neuro-Controllers for a Dynamic System - Dipankar Dasgupta   (Correct)   (3 citations)
Simulator X the System State of Figure 1: **Genetic design** of neurocontrollers. 3 The Problem A rigid
ftp.cs.unm.edu/pub/dasgupta/ijcnn-93.ps.Z

Title: Genetic Design of Optimum Linear and Non-linear QR$.. - Authors Riccardo Poli   (Correct)
Title: **Genetic Design** of Optimum Linear and Non-linear QR$
Fax:I-44-121-414-4281 **Genetic Design** of Optimum Linegr gnd Non-linegr Detectors
cswww.essex.ac.uk/staff/poli/papers/Poli-IEEETBME1995.pdf

Title: Genetic algorithm-based interactive segmentation of.. - Authors Cagnoni..   (Correct)
structures in 3D medical data sets. The "**genetic design**" is based on a small set of manually-traced
model, based on such contours During **genetic design**, the GA is required to yield optimum
cswww.essex.ac.uk/staff/poli/papers/Cagnoni-IAVC1999.pdf

Applied Cloning Techniques for a Genetic Algorithm - Used In Evolvable   (Correct)
in the area of evolvable hardware and FPGA **design. Genetic** algorithms for these particular problems
www.cs.ucf.edu/~ecl/papers/0307.sci.viet.pdf

First 20 documents Next 20

Try your query at: Amazon   Barnes & Noble   Google (RI)   Google (Web)   CSB   DBLP

A Genetic Methodology for Configuration Design (1994) (Make Corrections) (5 citations)
Gerald P. Roston

CiteS er   Home/Search   Bookmark   Context   Related

From: cmu.edu/robo1994 (more)
From: cmu.edu/People/clamen/...robotics
(Enter author homepages)

(Enter summary)

Rate this article: 1 2 3 4 5 (be
Comment on this article

Abstract: In an increasingly competitive world, the ability to efficiently produce viable artifact design alternatives is necessary for organizations to succeed. For millennia, engineers have been using design methodologies to assist in the configuration of new artifacts. However, as these artifacts have grown in complexity, the need fo more capable design methodologies has increased. This thesis presents a design methodology to aid the designer of complex artifacts by generating viable artifact design... (Update)

Context of citations to this paper: **More**

...arranged in alphabetical order by the name of the school. 4.3. **1 PhD theses Arizona State University, 43] Carnegie Mello University, [23] Florida International University, 477] Georgia Institute of Technology, 397] Indiana University, 146] Nor Carolina State University,**...

...in alphabetical order by the name of the school. 11 12 Genetic algorithms in robotics 4.3. **1 PhD theses Carnegie Mellon University, [87] Ecole Normale Superieure de Lyon, 106] Imperial College for Science, 335] Institut Imag, 63] Oxford University, 145] Universidad Polit**...

Cited by: **More**
Inductive Bias and Genetic Programming - Whigham (1995)   (Correct)
An Indexed Bibliography of Genetic Algorithms in Robotics - Alander (1998)   (Correct)
An Indexed Bibliography of Genetic Algorithms in Computer Aided.. - Alander (1997)   (Correct)

Active bibliography (related documents): **More All**
1.3: Drivetrain Design, Incorporating Redundancy, for an.. - Roston, Dowling   (Correct)
0.6: An Indexed Bibliography of Genetic Algorithms Papers of 1993 - Jarmo T. Alander (1996)   (Correct)
0.6: An Intelligent, Predictive Control Approach to the High-Speed.. - Kelly (1995)   (Correct)

Similar documents based on text: **More All**
0.1: On the Participation and Reputation of Financial Advisors in.. - Kale, Kini, jr.   (Correct)
0.1: A Method To Evaluate Robot Configurations In Task-Based.. - Shane Farritor And (2001)   (Correct)
0.1: Integrating Pattern-Based Reasoning in Multimodal Decision.. - Jack Gelfand   (Correct)

Related documents from co-citation: **More All**
3: A Multi-Population Genetic Algorithm and Its Application to Design of Manipulato.. (context) - Kim, Khosla - 1992
3: Genetic Programming: On the Programming of Computers by Means of Natural Selecti.. (context) - Koza - 1992
3: Robot Mechanism Synthesis and Genetic Algorithms (context) - Chedmail, Ramstein - 1996

BibTeX entry: **(Update)**

Roston, G. P. 1994. A Genetic Methodology for Configuration Design. Ph.D. Thesis. Department of Mechanical Engineering an The Robotics Institute, Carnegie Mellon University. (Also published as Technical Report CMU-RI-TR-94-42).
http://citeseer.nj.nec.com/roston94genetic.html   More
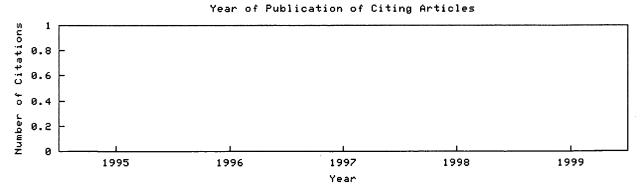
```
@phdthesis{ roston94genetic,
    author = "Gerald P. Roston",
    title = "A Genetic Methodology for Configuration Design",
    address = "Pittsburgh, PA 15213-3891, USA",
    year = "1994",
    url = "citeseer.nj.nec.com/roston94genetic.html" }
```

Citations (may not include all citations):
1609   Adaptation in Natural and Artificial Systems (context) - Holland - 1975   **Book Details from Amazon or Barnes & Nobl**

792 Optimization and Machine Learning (context) - Goldberg, in - 1989 **Book Details from <u>Amazon</u> or <u>Barnes & Noble</u>**
675 Techniques and Tools (context) - Aho, Sethi et al. - 1986
405 Genetic Programming - Koza - 1992
131 Vehicles: Experiments in Synthetic Psychology (context) - Valentino - 1989
124 Advances in Genetic Programming (context) - Kinnear - 1994
111 Messy Genetic Algorithms: Motivation (context) - Goldberg, Kord et al. - 1989
109 Strongly typed genetic programming - Montana - 1994
108 Formal Languages and Their Relation to Automata (context) - Hopcroft, Ullman - 1969
105 Introduction to Robotics (context) - Craig - 1986 **Book Details from <u>Amazon</u> or <u>Barnes & Noble</u>**
92 Genetic algorithms for multiobjective optimization: Formulat.. - Fonseca, Fleming - 1993
88 Algorithmic Graph Theory (context) - Gibbons - 1985
88 Evolving Virtual Creatures (context) - Karl - 1994
75 A kinematic notation for lower-pair mechanisms based on matr.. (context) - Denavit, Hartenberg - 1955
74 Genetic Programming II (context) - Koza - 1994 **Book Details from <u>Amazon</u> or <u>Barnes & Noble</u>**
73 An evolutionary algorithm that constructs recurrent neural n.. - Angeline, Saunders et al. - 1994
61 Morphology and Behavior by Competition (context) - Karl - 1994
50 Sizing populations for serial and parallel genetic algorithm.. (context) - Goldberg - 1989
47 Foundations of Genetic Algorithms (context) - Whitley - 1993
41 Foundations of Genetic Algorithms (context) - Rawlins - 1991
38 Engineering Design (context) - Pahl, Beitz - 1984 **Book Details from <u>Amazon</u> or <u>Barnes & Noble</u>**
30 Machines that Walk: The Adaptive Suspension Vehicle (context) - Song, Waldron - 1989
24 Evolution of Corridor Following Behavior in a Noisy World - Reynolds - 1994
21 A formal analysis of the role of multi-point crossover in ge.. - De Jong, Spears - 1992
20 Belew and Lashon B (context) - Richard - 1991
20 Advanced Mechanism Design: Analysis and Synthesis (context) - Sandor, Erdman - 1984
20 Introduction to Shape and Shape Grammars (context) - Stiny - 1980
19 Mechanical Engineering Design (context) - Shigley - 1977 **Book Details from <u>Amazon</u> or <u>Barnes & Noble</u>**
18 Dynamic Simulation of Non-Penetrating Rigid Bodies (context) - Baraff - 1992
18 Optimal and efficient path planning for unknown and dynamic .. (context) - Stentz - 1993
16 A review of research in mechanical engineering design (context) - Finger, Dixon - 1989
16 GALGO: A Genetic ALGOrithm Decision Support Tools for Comple.. (context) - Carlos - 1993
16 Artificial Life: The quest for new creation (context) - Steven - 1992
16 Kluwer Academic Publishers (context) - Wertz, Larson et al. - 1991
16 A review of research in mechanical engineering design (context) - Finger, Dixon - 1989
14 Dynamics: Theory and Application (context) - Kane, Levinson - 1985
14 Multicriteria Design Optimization (context) - Eschanauer, Koski et al. - 1990
14 Adaptive design using a genetic algorithm (context) - Maher, Kundu - 1993
13 Theory of Land Locomotion (context) - Bekker - 1956
13 Introduction to Terrain-Vehicle Systems (context) - Bekker - 1969
13 A model of the mechanical design process based on empirical .. (context) - Ullman, Dietterich et al. - 1988
12 McGraw Hill Book Company (context) - Shigley, Uicker et al. - 1980
11 Structure evolution and incomplete induction (context) - Lohmann - 1993
11 modeling for model-based object recognition systems (context) - Nyugen, Huang - 1994
10 A transformational approach to mechanical design using a bon.. (context) - Finger, Rinderle - 1989
10 Fundamentals of Vehicle Dynamics (context) - Gillespie - 1992
9 Use of force and attitude sensors for locomotion of a legged.. (context) - Klein, Olson et al. - 1983
9 Kinematic Synthesis of Linkages (context) - Hartenberg, Denavit - 1964
8 Innovative design of mechanical structures from first princi.. (context) - Cagan, Agogino - 1987
8 Grammatical approaches to engineering design (context) - Mullins, Rinderle - 1991
8 Grammatical approaches to engineering design (context) - Rinderle - 1991
7 Solving fixed configuration problems with genetic search (context) - Brown, Hwang - 1993
6 Similitude and Approximation Theory (context) - Kline - 1986
5 A General Model of Legged Locomotion on Natural Terrain (context) - Manko - 1990
5 The Science of Fractal Images (context) - Pietgen, Saupe - 1988
5 Task based kinematic design of robot manipulators (context) - Kim - 1992
5 The creation of mechanisms according to kinematic structure .. (context) - Freudenstein, Maki - 1979
4 Discovering individual decision rules: an application of gen.. (context) - Oliver - 1993
4 The Fractal Geometry of Nature (context) - Mandlebrot - 1982
4 A genetic algorithm based preliminary design system (context) - Pham, Yang - 1993
4 Walking Machines: An Introduction to Legged Robots (context) - Todd - 1985
3 Recursive annealing: A computational model for machine desig.. (context) - Schmidt, Cagan - 1994
2 Orthogonal Walkers for Autonomous Exploration of Severe Terr.. (context) - Bares - 1991
2 Gait Generation for Legged Robots (context) - Wettergreen, Thorpe - 1992
2 Vehicular legged locomotion (context) - McGhee - 1985
2 Houdini: In-tank mobile cleanup robot (context) - Schempf - 1994

2   Daedalus: A Walking Robot for Autonomous Planetary Explorati.. (context) - Roston, Dowling - 1993
2   Some Kinematic Structures for Robot Manipulator Designs (context) - Earl, Rooney - 1983
2   A highly agile mobility chassis design for a robotic allterr.. (context) - Klarer, Purvis - 1993
2   Basic study on similarity in walking machine from a point of.. (context) - Kaneko, Tachi et al. - 1987
2   Environment and Planning B (context) - Gips, Stiny et al. - 1980
2   Geometric design of a walking machine for optimal mobility (context) - Song, Waldron - 1987
2   Simulation of a six wheeled martian rover called the rocker .. (context) - Chottiner - 1992
2   Representation and problem-solving: the foundations of engin.. (context) - Dym - 1992
1   Issues and options for a mars rover (context) - Spiessbach - 1987
1   A comparative study of leg mechanisms for walking machine de.. (context) - Cha, Sastry et al. - 1989
1   A systematic approach to conceptual design based on function.. (context) - Sturges, O'Shaughnessy et al. - 1992
1   A stewart platform lunar rover - Bostelman - 1994
1   Development of vehicles with legs and wheels (context) - Oomichi, Tomoyosi - 1986
1   Scale Effects on Animal Locomotion (context) - Pedley - 1977
1   Wheeled planetary rover testbed (context) - Price, Chun et al. - 1990
1   Studies of rover mobility and surface rendezvous (context) - Inc, sample et al. - 1988
1   Kinematics of six-legged vehicles on irregular terrain (context) - Dongying - 1985
1   Multicriteria evaluation: measures (context) - Voogd - 1988
1   Introduction to special issue on legged locomotion (context) - Raibert - 1990
1   An improved shape annealing method for truss topology genera.. (context) - Reddy, Cagan - 1994
1   History of wheels for off-road transportation (context) - Freitag - 1979
1   Standards for the mobility requirements of military vehicles (context) - Larminie - 1988
1   Comparison of mobility system concepts for a mars rover (context) - Wright, Watson - 1987
1   Work performed under JPL contract (context) - Inc, rover et al. - 1988
1   Some further problems in the design of wheels and tracks (context) - Yong - 1976
1   Scientific American Books (context) - McMahon, Bonner et al. - 1983
1   Japan-USA Symposium on Flexible Automation (context) - Reinhard, structure - 1994
1   Lunar Terrain and Traverse Data for Lunar Roving Vehicle Des.. (context) - Moore, Pike et al. - 1969
1   A fusion of genetic algorithm and genetic programming techni.. (context) - Howard, D'Angelo
1   An Investigation of Walker/Terrain Interaction (context) - Nagy - 1991
1   dynamic simulator for walking robots (context) - Nakamura - 1990
1   Relationship between payload and speed in legged locomotion .. (context) - Huang, Waldron - 1990
1   Development on aquatic walking robot for underwater inspecti.. (context) - Mineo - 1987
1   Adjustable straight line linkages - possible leg-vehicle app.. (context) - Ryan, Hunt - 1985
1   Technology Planning Workshop for the Mars Rover (context) - Mankins - 1987
1   volume 56 of Russian Translations Series (context) - Ageikin, of - 1987
1   Multicriteria evaluation: measures (context) - Buckley - 1988
1   An optimization-based framework for simultaneous plantcontro.. (context) - Beyers, Desa - 1994
1   Applied Kinematics (context) - Hain - 1967

Year of Publication of Citing Articles

The graph only includes citing articles where the year of publication is known.

Documents on the same site (http://reports-archive.adm.cs.cmu.edu/robo1994.html):   More
A 3D State Space Formulation of a Navigation Kalman Filter for.. - Kelly (1994)   (Correct)
Multi-Agent Perception for Human/Robot Interaction: A.. - Voyles, Jr., Khosla (1994)   (Correct)
Dynamic Coupling Of Underactuated Manipulators - Bergerman, Lee, Xu (1994)   (Correct)

Online articles have much greater impact   More about CiteSeer   Add search form to your site   Submit documents   Feedback

CiteSeer Find: | genetic design simulating annealir | [Documents] [Citations]

Searching for **PHRASE genetic design simulating annealing**.
Restrict to: Header Title Order by: Citations Hubs Usage Date Try: Amazon B&N Google (RI) Google (Web) CS DBLP
No documents match Boolean query. Trying non-Boolean relevance query.
1000 documents found. **Only retrieving 250 documents (System busy - maximum reduced).** Retrieving documents... **Orde relevance to query.**

Optimization by Genetic Annealing - Xin Yao (1991)   (Correct)   (5 citations)
Optimization by **Genetic Annealing** Xin Yao Computer Sciences
Fax: 61 6)06)249 1884 Abstract **Simulated Annealing** (SA) is a general stochastic search
Optimization by **Genetic Annealing** Xin Yao Computer Sciences Laboratory Research
www.cs.adfa.oz.au/pub/xin/acnn91.ps.Z

Partitioning of Unstructured Meshes for Load Balancing - Martin, Otto (1994)   (Correct)   (7 citations)
processors. This is called Darwinian selection for **genetic** algorithms and diffusion Monte Carlo in physics.
improving network partitions. In Proceedings 19'th **Design** Automation Workshop, page 175, 1982. 16] M.
and more general purpose methods such as **simulated annealing**. We show that a general procedure
cse.ogi.edu/pub/tech-reports/1994/94-017.ps.gz

Detc2001/dac-21052 - Using Neural Network (2001)   (Correct)
Using A Neural Network To Determine Fitness In **Genetic Design** Shane Farritor 1 Department Of
Proceedings of the DETC'01 2001 ASME **Design** Engineering Technical Conferences September 9-12,
robots.unl.edu/Files/Papers/2001/DETC_farritor_DAC-21052.PDF

A Method To Evaluate Robot Configurations In Task-Based.. - Shane Farritor And (2001)   (Correct)
is used to evaluate the quality of robots during a **genetic** algorithm search. In a general application of
Robot Configurations In Task-Based Modular **Design** Shane Farritor And Jun Zhang Department Of
robots.unl.edu/Files/Papers/2001/ICRA_Farritor_design_submitted.PDF

Genetic Algorithms for Combinatorial Optimization: The.. - Anderson, Ferris (1994)   (Correct)   (4 citations)
Genetic Algorithms for Combinatorial Optimization: The
can be described as follows: Suppose we wish to **design** a manufacturing line using a given number of
of hard combinatorial optimization problems. **Simulated Annealing** 23, 9, 14] has this property, as
ftp.cs.wisc.edu/math-prog/tech-reports/93-ga.ps

Simultaneous Place and Route for Wire-Constrained FPGAs - Darren Cronquist (1995)   (Correct)
version of Triptych was the original **design** which provided only 3-inputs per RLB. Since the
Box 352350 Seattle, WA 98195-2350 Abstract **Simulated annealing** placement algorithms which use
352350 Seattle, WA 98195-2350 Abstract **Simulated annealing** placement algorithms which use minimum wire
ftp.cs.washington.edu/tr/1995/03/UW-CSE-95-03-01.PS.Z

A Simple Heuristic Based Genetic Algorithm for the Maximum.. - Marchiori (1998)   (Correct)   (3 citations)
A Simple Heuristic Based **Genetic** Algorithm for the Maximum Clique Problem Elena
many researchers have concentrated their effort to **design** efficient heuristics yielding satisfactory
other (variants of local) search techniques, like **simulated annealing** and tabu search. 1 Introduction A
www.cwi.nl/~elena/sac98.ps.gz

Evolutionary Design of a Helicopter Autopilot - Hoffmann, Koo, Shakernia (1998)   (Correct)
natural evolution. Although they employ different **genetic** representations, they share the same generic
Evolutionary **Design** of a Helicopter Autopilot Frank Hoffmann, Tak
by the evolution strategy is evaluated in a **simulat**ion based on a nonlinear model of the
HTTP.CS.Berkeley.EDU/~fhoffman/wsc3.ps.gz

Investigating the Generality of Automatically Defined Functions - O'Reilly (1996)   (Correct)   (2 citations)
combination of **simulated annealing** and ADFs solves **genetic** programming (GP) style program discovery
reuse of procedures and efficient hierarchical **design**. Some systems work dynamically they change the
This paper studies how well the combination of **simulated annealing** and ADFs solves **genetic** programming
www.ai.mit.edu/people/unamay/papers/submission.ps

Cost Function Error in Asynchronous Parallel Simulated Annealing.. - Durand (1989)   (Correct)
problems including image processing, the **design** of codes and many problems which occur in the

Cost Function Error in Asynchronous Parallel **Simulated Annealing** Algorithms M. D. Durand Columbia
Function Error in Asynchronous Parallel **Simulated Annealing** Algorithms M. D. Durand Columbia University
ftp.cs.columbia.edu/listserv/reports/cucs-423-89.ps.gz

Properties of Genetic Representations of Neural Architectures - Karthik Balakrishnan (1995)   (Correct)   (5 citations)
Properties of **Genetic** Representations of Neural Architectures Karthik
promising approach for automatically exploring the **design** space of neural architectures for artificial
www.cs.iastate.edu/~honavar/Papers/TR95-13.ps

Stochastic Approximation Algorithms for Number Partitioning - Ruml (1993)   (Correct)
as hill climbing, **simulated annealing**, and the **genetic** algorithm, to find solutions that are often as
target of transformations from problems in network **design**, storage and retrieval, scheduling, and
generic search methods, such as hill climbing, **simulated annealing**, and the **genetic** algorithm, to find
das-ftp.harvard.edu/techreports/tr-17-93.ps.gz

Hybridized Crossover-Based Search Techniques for Program.. - O'Reilly, Oppacher (1995)   (Correct)   (8 citations)
the problem of program discovery as defined by **Genetic** Programming. By combining a hierarchical
GP plus Hill Climbing Algorithms The algorithms **design**ed for hybridized GP and stochastic iterated hill
two traditional single point search algorithms: **Simulated Annealing** and Stochastic Iterated Hill
www.ai.mit.edu/people/unamay/papers/ec95.ps

A Further Result on the Markov Chain Model of Genetic Algorithms.. - Suzuki (1997)   (Correct)   (5 citations)
1997 A Further Result on the Markov Chain Model of **Genetic** Algorithms and Its Application to a **Simulated**
of **Genetic** Algorithms and Its Application to a **Simulated Annealing**-like Strategy Joe Suzuki Abstract-
Algorithms and Its Application to a **Simulated Annealing**-like Strategy Joe Suzuki Abstract-This
www.math.sci.osaka-u.ac.jp/~suzuki/./ga.ps

Annealed Importance Sampling - Neal (1998)   (Correct)   (4 citations)
0 is the one of interest. The distribution p n is **design**ed so that the Markov chain used to sample from it
1998 Revised: 1 September 1998 Abstract. **Simulated annealing** -moving from a tractable
Department of Statistics, University of Toronto **Anneal**ed Importance Sampling Radford M. Neal `
ftp.cs.toronto.edu/pub/radford/ais.ps.Z

Artificial Evolution for Real Problems - Harvey (1997)   (Correct)   (2 citations)
too complex to comprehend. I will first introduce **Genetic** Algorithms (GAs) as the best-known appli1 7 9 1
were judged did not include the ability to **design** complex systems -in fact, we are not very good
It can for instance be used as an alternative to **Simulated Annealing**, with which it bears some
www.inet.gda.pl/ai/ftp.cogs.susx.ac.uk/pub/users/inmanh/AE_RP.ps.gz

Genetically Breeding Populations of Computer Programs to Solve.. - John Koza (1990)   (Correct)   (1 citation)
1 **Genetic**ally Breeding Populations of Computer Programs to
(Koza 1990b)and (10) simultaneous architectural **design** and training of neural networks. Three Examples
fitness in handling the problem environment and a **simulated** evolutionary process is driven by this measure
www.genetic-programming.com/TAI90.ps

Intelligent Computing About Complex Dynamical Systems - Zhao (1994)   (Correct)
results, and utilize the analysis to perform **design** tasks. We demonstrate the mechanisms with an
Systems appeared in Mathematics and Computers in **Simula**tion, 36:423-432, Elsevier, 1994) Feng Zhao
www.cis.ohio-state.edu/insight/papers/mcs.ps

Title: Genetic Design of Optimum Linear and Non-linear QR$.. - Authors Riccardo Poli   (Correct)
Title: **Genetic Design** of Optimum Linear and Non-linear QR$
Title: **Genetic Design** of Optimum Linear and Non-linear QR$ Detectors
reproduce longer than the others [7]8]GAs **simulate**, in a rather simplified way, the processes
cswww.essex.ac.uk/staff/poli/papers/Poli-IEEETBME1995.pdf

First 20 documents Next 20

Try your query at: Amazon   Barnes & Noble   Google (RI)   Google (Web)   CSB   DBLP